	Application No.	Applicant(s)
Notice of Allowability	10/518,605	GERTNER, DMITRY ALEXANDROVICH
	Examiner	Art Unit
	Longbit Chai	2131
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT IS of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED in this application of the subject appropriate communication is subject and MPEP 1308.	oplication. If not included n will be mailed in due course. THIS
1. This communication is responsive to <u>interview on 6/27/20</u>	<u>007</u> .	
2. The allowed claim(s) is/are <u>56-72</u> .		
 3.	ve been received. ve been received in Application No ocuments have been received in this " of this communication to file a reply MENT of this application. mitted. Note the attached EXAMINER ves reason(s) why the oath or declar ust be submitted. rson's Patent Drawing Review (PTO r's Amendment / Comment or in the 1.84(c)) should be written on the draw the header according to 37 CFR 1.121 osit of BIOLOGICAL MATERIAL	r national stage application from the complying with the requirements R'S AMENDMENT or NOTICE OF ation is deficient. -948) attached Office action of lings in the front (not the back) of (d). must be submitted. Note the
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	Paper No./Mail Da 7. ⊠ Examiner's Amend	v (PTO-413), ate <u>6/27/2007</u> ment/Comment ent of Reasons for Allowance
		CHRISTOPHER REVAK PRIMARY EXAMINER

DETAILED ACTION

Examiner's Amendment

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this Examiner's Amendment was given in a telephone interview with Judson K. Champlin (Reg. No. 34,797) on 27 June 2007.

This application has been amended as follows:

IN THE CLAIMS

Cancel claim 1 - 55 and 73 - 74.

Replace claims 56 and 68.

Claim 56:

A method for transmission of information with protection against copying with use of a personal cryptoprotective complex designed for both transmission and reception of information, the method comprising:

Art Unit: 2131

in a ROM of each of personal cryptoprotective complexes, storing a mother code being a set of random numbers (M1, M2, ..., MN), copies of encryption, decryption and information processing programs, wherein record is carried out in a protected way only in said personal cryptoprotective complexes, said way excluding the possibility of recording to other media and modifying said programs, as well as personal data of a user including his or her electronic signature, and setting date and time in a built-in clock;

generating and storing an electronic document in a PROM of the personal cryptoprotective complex;

establishing a protected communication session with application of the personal cryptoprotective complexes on the basis of a single-use key of the communication session generated using random numbers and the mother code, and inputting a user's command to transmit the electronic document recorded in the PROM to other subscriber of the established communication session;

encrypting the electronic document by <u>a dynamically transformable daughter</u> code on the basis of the mother code and the single-use encryption key in the personal <u>cryptoprotective complexes of users an encryption program</u> and transmitting the encrypted electronic document to another personal cryptoprotective complex;

Art Unit: 2131

upon termination of transmission of the encrypted electronic document, in the personal cryptoprotective complex, disabling any operations with the electronic document stored in the PROM for a predetermined time period T1;

in the personal cryptoprotective complex of a receiving party, receiving the encrypted electronic document, performing decryption by a decryption program, and obtaining the electronic document;

recording the electronic document to the PROM, and disabling any operations with the electronic document for a predetermined time period T1;

generating an electronic-document-loading-acknowledgement password in the personal cryptoprotective complex of a receiving party and transmitting the electronic-document-loading-acknowledgement password in the encrypted form to the personal cryptoprotective complex of a sending party;

in case if the sender does not receive the electronic-document-loading-acknowledgement password from the recipient during the time period T1, enabling the electronic document in the PROM of the personal cryptoprotective complex of the sender, while ignoring the subsequent reception of said password;

in case if the recipient does not send the electronic-document-loading-acknowledgement password to the sender during the time period T1, automatically deleting the electronic document from the PROM of the personal cryptoprotective complex;

receiving the electronic-document-loading-acknowledgement password in the personal cryptoprotective complex of the sending party, generating an electronic-

Art Unit: 2131

document-transmission-acknowledgement password, and requesting a user acknowledgement in response to the sending of the present password to the personal cryptoprotective complex of the receiving party;

in case if the user gives no acknowledge in response to the sending of the password during a predetermined time period T2, then, on the expiration of said time period, automatically enabling said electronic document in the PROM of the personal cryptoprotective complex of the sender, and automatically deleting said electronic document in the PROM of the personal cryptoprotective complex of the recipient;

in case if the user acknowledges the sending of the password during the time period T2, sending the present password in the encrypted form to the personal cryptoprotective complex of the recipient, wherein said electronic document is automatically deleted from PROM of the personal cryptoprotective complex of the sender, and said electronic document is automatically enabled in the PROM of the personal cryptoprotective complex of the recipient when he or she has received said electronic-document-transmission-acknowledgement password, and is outputted to the user.

Claim 68:

A method for simultaneously exchanging copy-protected electronic documents among users through a communication link with use of a cryptoprotective complex designed for both transmission and reception of information, comprising:

Art Unit: 2131

in a ROM of each of personal cryptoprotective complexes, storing a mother code being a set of random numbers (M1, M2, ..., MN), encryption, decryption and information processing programs, wherein record is carried out in a protected way only in said personal cryptoprotective complexes, said way excluding the possibility of recording to other media and modifying said programs;

storing an individual number I of the personal cryptoprotective complex in the ROM as well as personal data of a user including his or her electronic signature, and setting date and time in a built-in clock;

synchronously generating a single-use encryption key on the basis of random numbers produced in the personal cryptoprotective complexes of users and the mother code;

synchronously generating dynamically transformable daughter codes on the basis of the mother code and the single-use encryption key in the personal cryptoprotective complexes of users and encrypting the electronic document by the daughter code and transmitting the encrypted electronic document to another personal cryptoprotective complex;

inputting initial information to each of the personal cryptoprotective complexes of users and storing the obtained electronic document in the PROM of the personal cryptoprotective complex;

in at least one of the personal cryptoprotective complexes, inputting a command for simultaneous exchanging the electronic documents, and sending said command in

Art Unit: 2131

the form of a signal encrypted by means of the produced single-use encryption key to other personal cryptoprotective complex;

in each of the personal cryptoprotective complexes, inputting a user's command to start transmission of the electronic document recorded in the PROM to other subscriber of the established communication session;

encrypting the electronic document by an encryption program, and transmitting the encrypted electronic document to other personal cryptoprotective complex;

in accordance with the command for simultaneous exchanging the electronic documents, disabling any operations with the electronic document stored in the PROM for a predetermined time period T1;

receiving the electronic document and decrypting the electronic document, establishing the reliability of information by check for absence of distortions in information by a decryption program, recording the electronic document to the PROM, disabling any operations with the electronic document for a predetermined time period T1, and outputting the obtained electronic document to the user for acquaintance;

in the personal cryptoprotective complex of the receiving party, generating an electronic-document-loading-acknowledgement password and transmitting said electronic-document-loading-acknowledgement password in the encrypted form to the personal cryptoprotective complex of the sending party;

in case if the sender does not receive the electronic-document-loadingacknowledgement password from the recipient during the time period T1, the electronic

Art Unit: 2131

document is enabled in the PROM of the personal cryptoprotective complex of the sender:

in case if the recipient does not send the electronic-document-loading-acknowledgement password to the sender during the time period T1, automatically deleting the electronic document from the PROM of the personal cryptoprotective complex of the recipient;

receiving the electronic-document-loading-acknowledgement in the personal cryptoprotective complex of sending party, generating an electronic-document-transmission-acknowledgement password and requesting a user acknowledgement to send the present password to the personal cryptoprotective complex of the receiving party;

in case if the user does not acknowledge the sending of the password during a predetermined time period T2, then, after the expiration of said time period, automatically enabling said electronic document in the PROM of the personal cryptoprotective complex of the sender, and automatically deleting said electronic document in the PROM of the personal cryptoprotective complex of the recipient;

in case if the user gives the acknowledgement for sending the password during the time period T2, then, sending a predetermined signal in the encrypted form containing information of said acknowledgement to other user, and receiving a similar signal from said user;

after the exchange of acknowledgement signals, making synchronization according the last signal, and from the moment of sending a last bit of said signal from

Art Unit: 2131

one of personal cryptoprotective complexes and, respectively, the moment of reception thereof in other personal cryptoprotective complex, starting a procedure of a simultaneous exchange of the electronic-document-transmission-acknowledgement passwords in the encrypted form, wherein the reception of a password-containing signal from the opposite party is monitored in each of the personal cryptoprotective complexes, and in case of absence or interruption of said signal, the transmission of own password is stopped;

after the sending of the transmission-acknowledgement password, automatically deleting said electronic document from the PROM of the personal cryptoprotective complex of the sender, and when the recipient has received the electronic-document-transmission-acknowledgement password, automatically enabling said electronic document in the PROM of the personal cryptoprotective complex of the recipient.

Allowable Subject Matter

Claims 56 – 72 are allowed.

The following is an examiner's statement of reasons for allowance:

The above mentioned claims are allowable over prior arts because the CPA (Cited Prior Art) of record fails to teach or render obvious the claimed limitations in combination with the specific added limitations, as recited in independent claims 56, 62 and 68.

The prior arts fail to teach or suggest a method for transmission of information with protection against copying with use of a personal cryptoprotective complex by

receiving the electronic-document-loading-acknowledgement password in the personal cryptoprotective complex of the sending party from the recipient within the first time period T1, generating an electronic-document-transmission-acknowledgement password from the sender; in case if the user acknowledges the sending of the password during the second time period T2, sending the present password in the encrypted form to the recipient, wherein said electronic document is automatically deleted from PROM of the the sender, and said electronic document is automatically enabled in the PROM of the recipient when said electronic-document-transmissionacknowledgement password has been received, followed by inputting user's commands, processing the decrypted information according to the user's commands received from the service information and according to the earlier inputted information and the information processing program, and outputting the processed information to the user together with service symbols that authenticate attributes of the received electronic document. The closest prior art, U.S. Pattern 7,093,015 and U.S. Pattern 5,671,279, fails to anticipate or render obvious the claimed invention.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Longbit Chai whose telephone number is 571-272-3788. The examiner can normally be reached on Monday-Friday 8:00am-4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz R. Sheikh can be reached on 571-272-3795. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2131

805 Page 11

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